



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1061735

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	J. Meyer 2-28
Doc ID	1061735

Tops

Name	Top	Datum
Anhydrite	670	+1199
Howard	2809	-940
Severy Shale	2862	-993
Topeka	2906	-1037
Heebner	3220	-1351
Brown Lime	3363	-1494
Lansing	3388	-1519
Base Lansing	3638	-1769
Simpson Shale	3755	-1886
Arbuckle	3819	1950
RTD	3900	-2031



## DRILL STEM TEST REPORT

Prepared For: **Rama Operating Company Inc.**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429

ATTN: Josh Austin

**28/23S/12W Stafford**

**J.Meyer #2-28**

Start Date: 2011.08.07 @ 01:28:00

End Date: 2011.08.07 @ 00:00:00

Job Ticket #: 18705                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2011.08.06 @ 19:11:59



# DRILL STEM TEST REPORT

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429  
ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18705

**DST#: 2**

Test Start: 2011.08.07 @ 01:28:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/74

**Interval: 3752.00 ft (KB) To 3828.00 ft (KB) (TVD)**

Reference Elevations: 1869.00 ft (KB)

Total Depth: 3828.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6666 Outside**

Press @ RunDepth: 1321.75 psia @ 3824.37 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.07

End Date: 2011.08.07

Last Calib.: 2011.08.06

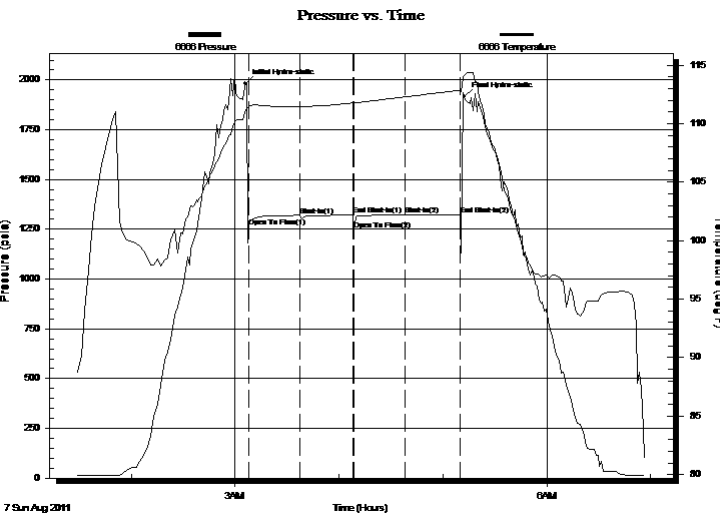
Start Time: 01:28:00

End Time: 06:57:00

Time On Btm: 2011.08.07 @ 03:06:00

Time Off Btm: 2011.08.07 @ 05:12:30

**TEST COMMENT:** 1ST Opening 30 Minutes weak but building/blow built to 1 inch/and than died out to surface blow  
1ST Shut-In 30 Minutes no blow back  
2ND Opening 30 Minutes  
2ND Shut-In 30 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1981.71	111.11	Initial Hydro-static
2	1264.81	111.46	Open To Flow (1)
32	1320.08	111.44	Shut-In(1)
62	1320.69	111.76	End Shut-In(1)
63	1249.50	111.80	Open To Flow (2)
92	1321.16	112.28	Shut-In(2)
124	1321.75	112.85	End Shut-In(2)
127	1916.52	114.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.15

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
 Stafford, Kansas 159  
 67578+1429  
 ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18705

**DST#: 2**

Test Start: 2011.08.07 @ 01:28:00

## GENERAL INFORMATION:

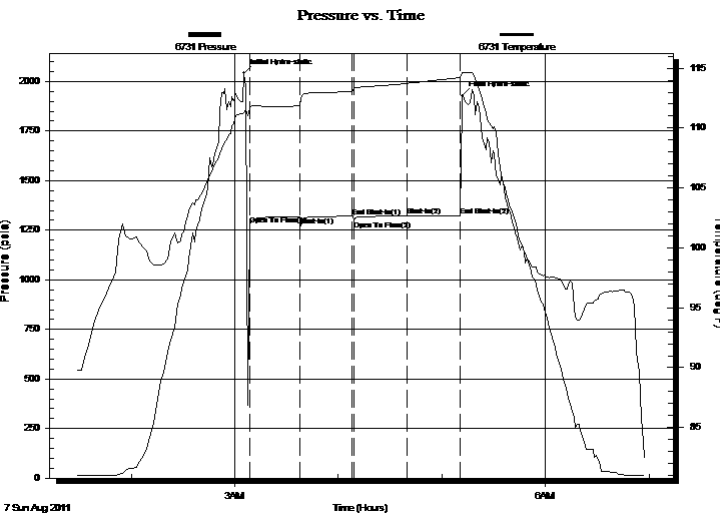
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00  
 Tester: Dylan E Ellis  
 Time Test Ended: 00:00:00  
 Unit No: 3345/Great Bend/74  
 Interval: **3752.00 ft (KB) To 3828.00 ft (KB) (TVD)**  
 Reference Elevations: 1869.00 ft (KB)  
 Total Depth: 3828.00 ft (KB) (TVD) 1860.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

## Serial #: 6731

**Inside**

Press @ RunDepth: 1321.02 psia @ 3823.37 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.08.07 End Date: 2011.08.07 Last Calib.: 2011.08.06  
 Start Time: 01:28:00 End Time: 06:57:30 Time On Btm: 2011.08.07 @ 03:05:30  
 Time Off Btm: 2011.08.07 @ 05:12:00

**TEST COMMENT:** 1ST Opening 30 Minutes weak but building/blow built to 1 inch/and than died out to surface blow  
 1ST Shut-In 30 Minutes no blow back  
 2ND Opening 30 Minutes  
 2ND Shut-In 30 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2041.72	111.25	Initial Hydro-static
3	1278.10	111.58	Open To Flow (1)
32	1319.43	111.89	Shut-In(1)
63	1320.00	113.09	End Shut-In(1)
64	1298.19	113.27	Open To Flow (2)
94	1320.48	113.73	Shut-In(2)
125	1321.02	114.22	End Shut-In(2)
127	1928.07	114.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.15

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
 Stafford, Kansas 159  
 67578+1429  
 ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18705

**DST#: 2**

Test Start: 2011.08.07 @ 01:28:00

**Tool Information**

Drill Pipe:	Length: 3570.00 ft	Diameter: 3.80 inches	Volume: 50.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.08 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 50.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.08 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3752.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.37 ft			
Tool Length:	98.37 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3732.00	
Shut-In Tool	5.00			3737.00	
Hydroic Tool	5.00			3742.00	
Packer	5.00			3747.00	21.00 Bottom Of Top Packer
Packer	5.00			3752.00	
Perforations	5.00			3757.00	
Change Over Sub	0.75			3757.75	
Drill Pipe	31.87			3789.62	
Change Over Sub	0.75			3790.37	
Perforations	32.00			3822.37	
Recorder	1.00	6731	Inside	3823.37	
Recorder	1.00	6666	Outside	3824.37	
Bullnose	5.00			3829.37	77.37 Bottom Packers & Anchor

**Total Tool Length: 98.37**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429

**28/23S/12W Stafford**

Job Ticket: 18705

**DST#: 2**

ATTN: Josh Austin

Test Start: 2011.08.07 @ 01:28:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

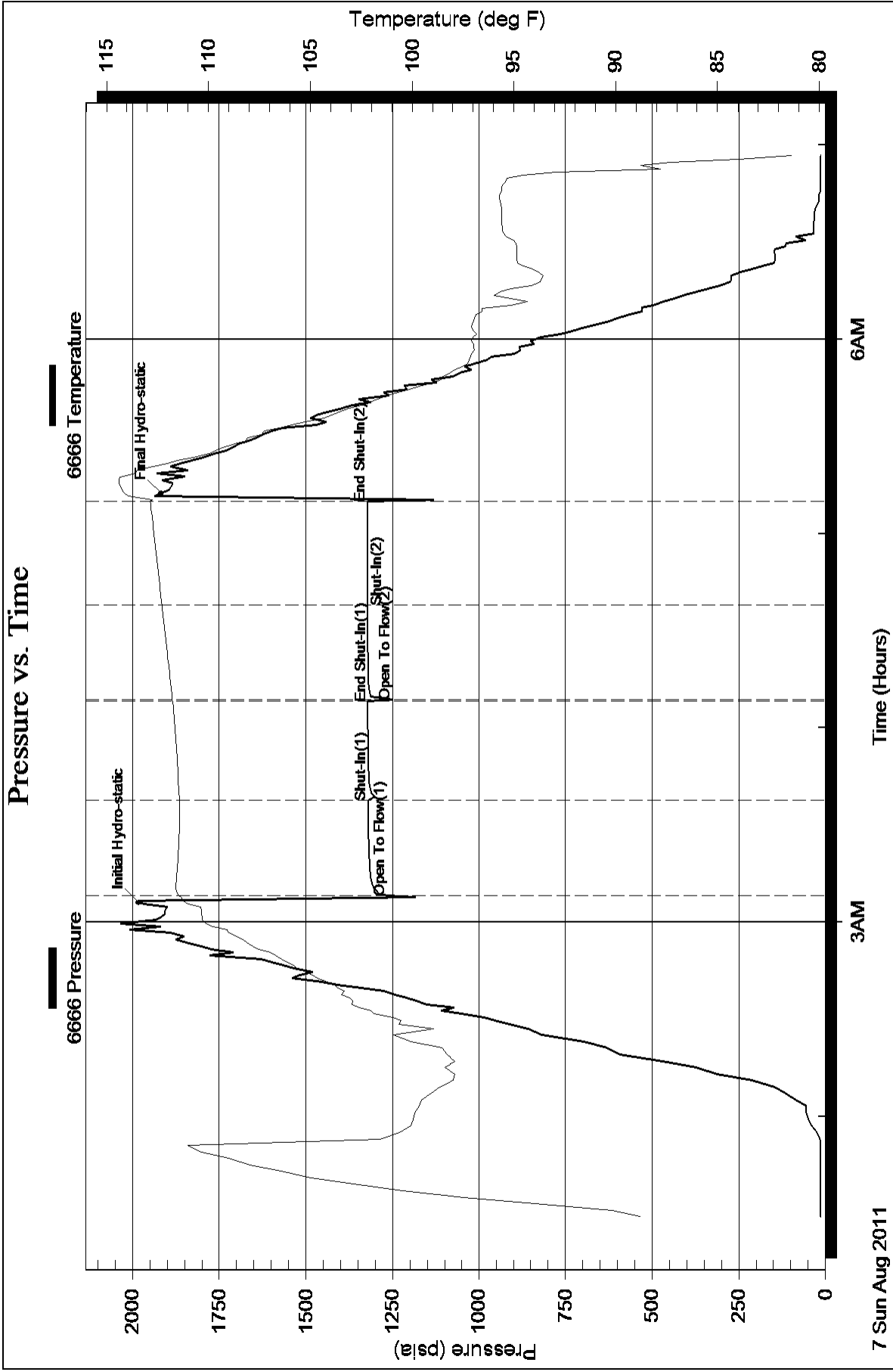
Serial #:

Laboratory Name:

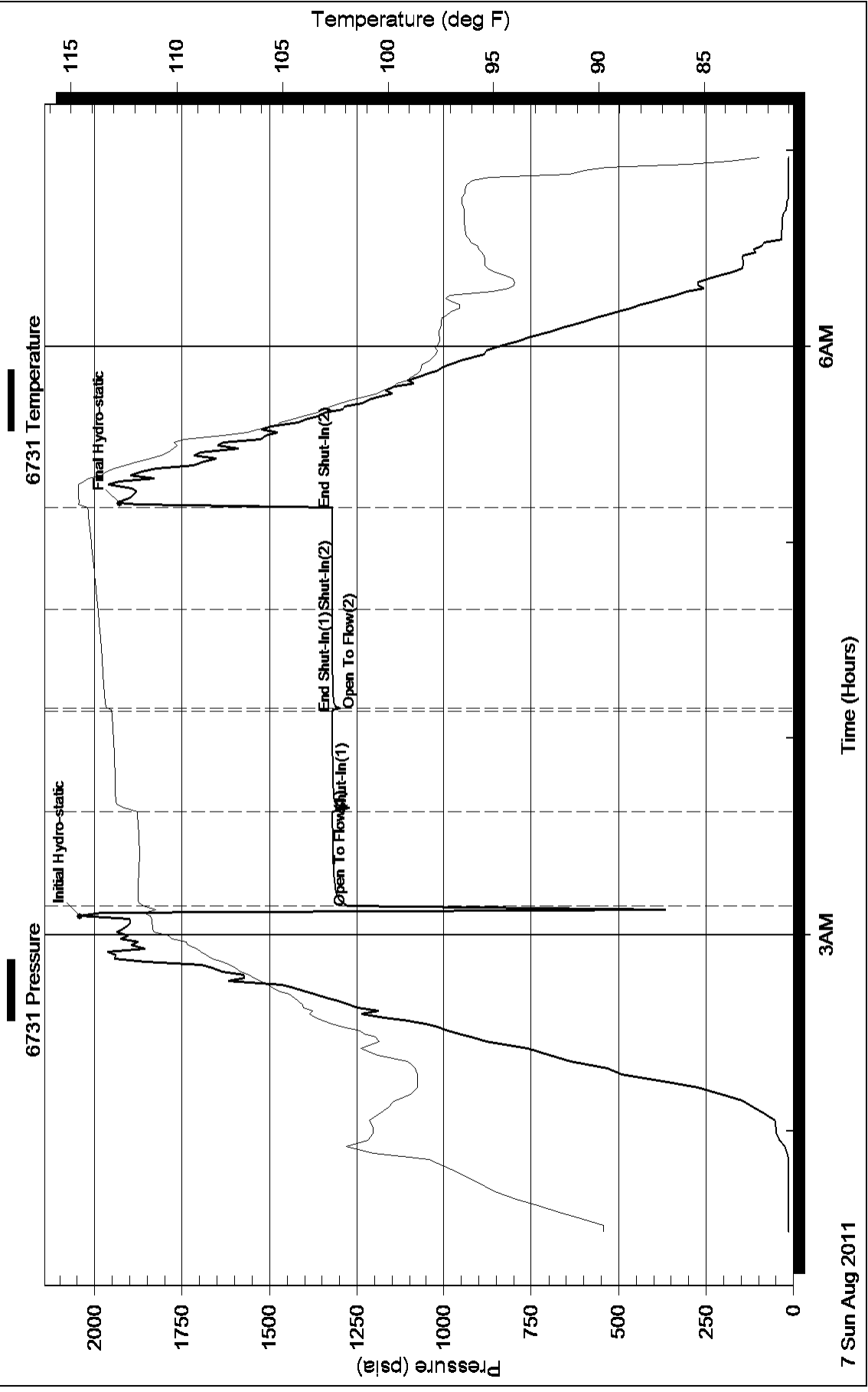
Laboratory Location:

Recovery Comments:





# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Rama Operating Company Inc.**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429

ATTN: Josh Austin

**28/23S/12W Stafford**

**J.Meyer #2-28**

Start Date: 2011.08.06 @ 10:54:00

End Date: 2011.08.06 @ 00:00:00

Job Ticket #: 18704                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2011.08.05 @ 17:45:38



# DRILL STEM TEST REPORT

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429  
ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18704 **DST#: 1**  
Test Start: 2011.08.06 @ 10:54:00

## GENERAL INFORMATION:

Formation: **Lansing "J-K" Zon**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/74

**Interval: 3552.00 ft (KB) To 3610.00 ft (KB) (TVD)**

Reference Elevations: 1869.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6666 Outside**

Press @ Run Depth: 569.57 psia @ 3605.48 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.06

End Date: 2011.08.06

Last Calib.: 2011.08.05

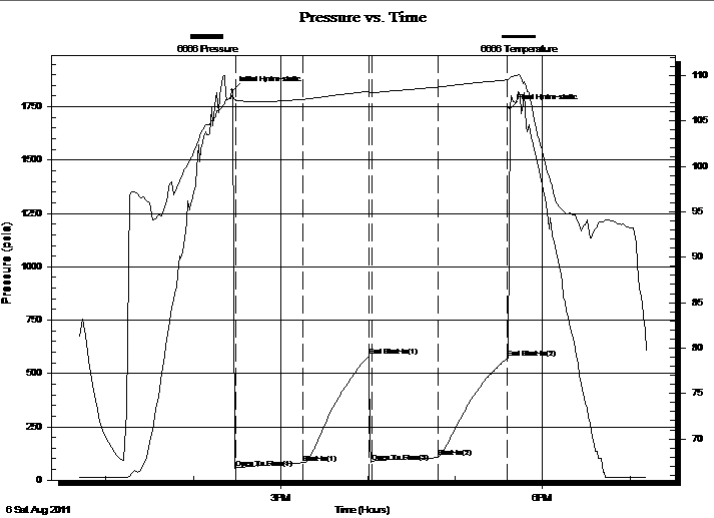
Start Time: 12:41:00

End Time: 19:12:00

Time On Btm: 2011.08.06 @ 14:27:00

Time Off Btm: 2011.08.06 @ 17:37:30

**TEST COMMENT:** 1ST Opening 45 Minutes fair blow but building/blow blew to bottom of bucket in 8 minutes  
1ST Shut-In 45 Minutes no blow back  
2ND Opening 45 Minutes fair blow/blow blew to bottom of bucket in 31 minutes  
2ND Shut-In 45 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1827.40	107.76	Initial Hydro-static
2	56.45	107.29	Open To Flow (1)
48	81.42	107.37	Shut-In(1)
94	581.08	108.27	End Shut-In(1)
96	83.39	108.12	Open To Flow (2)
142	105.12	108.73	Shut-In(2)
189	569.57	109.51	End Shut-In(2)
191	1742.07	109.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Lightly Gassy Oil cut Mud	0.30
0.00	Gas 10% Oil 4% Mud 86%	0.00
0.00	240' Gas in the Pipe	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429  
ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18704

**DST#: 1**

Test Start: 2011.08.06 @ 10:54:00

## GENERAL INFORMATION:

Formation: **Lansing "J-K" Zon**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/74

**Interval: 3552.00 ft (KB) To 3610.00 ft (KB) (TVD)**

Reference Elevations: 1869.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6731**

**Inside**

Press @ Run Depth: 573.31 psia @ 3604.48 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.06

End Date: 2011.08.06

Last Calib.: 2011.08.06

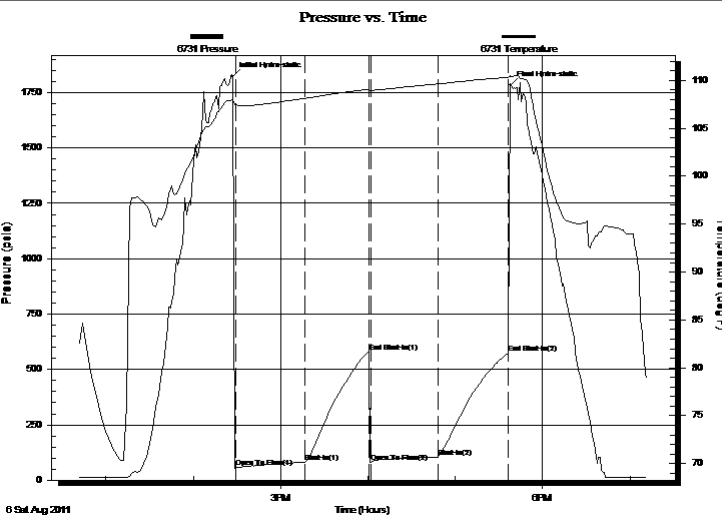
Start Time: 12:41:00

End Time: 19:11:30

Time On Btm: 2011.08.06 @ 14:27:00

Time Off Btm: 2011.08.06 @ 17:38:00

**TEST COMMENT:** 1ST Opening 45 Minutes fair blow but building/blow blew to bottom of bucket in 8 minutes  
 1ST Shut-In 45 Minutes no blow back  
 2ND Opening 45 Minutes fair blow/blow blew to bottom of bucket in 31 minutes  
 2ND Shut-In 45 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1823.81	107.99	Initial Hydro-static
2	55.96	107.47	Open To Flow (1)
50	81.20	108.13	Shut-In(1)
94	579.65	109.09	End Shut-In(1)
95	81.35	108.97	Open To Flow (2)
141	104.21	109.64	Shut-In(2)
190	573.31	110.33	End Shut-In(2)
191	1782.55	110.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Lightly Gassy Oil cut Mud	0.30
0.00	Gas 10% Oil 4% Mud 86%	0.00
0.00	240' Gas in the Pipe	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
 Stafford, Kansas 159  
 67578+1429  
 ATTN: Josh Austin

**28/23S/12W Stafford**

Job Ticket: 18704

**DST#: 1**

Test Start: 2011.08.06 @ 10:54:00

## Tool Information

Drill Pipe:	Length: 3377.00 ft	Diameter: 3.80 inches	Volume: 47.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 183.08 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 25000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.08 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3552.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.48 ft			
Tool Length:	79.48 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3532.00	
Shut-In Tool	5.00			3537.00	
Hydroic Tool	5.00			3542.00	
Packer	5.00			3547.00	21.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Perforations	5.00			3557.00	
Change Over Sub	0.75			3557.75	
Drill Pipe	31.98			3589.73	
Change Over Sub	0.75			3590.48	
Perforations	13.00			3603.48	
Recorder	1.00	6731	Inside	3604.48	
Recorder	1.00	6666	Outside	3605.48	
Bullnose	5.00			3610.48	58.48 Bottom Packers & Anchor

**Total Tool Length: 79.48**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Rama Operating Company Inc.

**J.Meyer #2-28**

101 South Main P.O.Box  
Stafford, Kansas 159  
67578+1429

**28/23S/12W Stafford**

Job Ticket: 18704

**DST#: 1**

ATTN: Josh Austin

Test Start: 2011.08.06 @ 10:54:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 9.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4900.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Lightly Gassy Oil cut Mud	0.295
0.00	Gas 10% Oil 4% Mud 86%	0.000
0.00	240' Gas in the Pipe	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

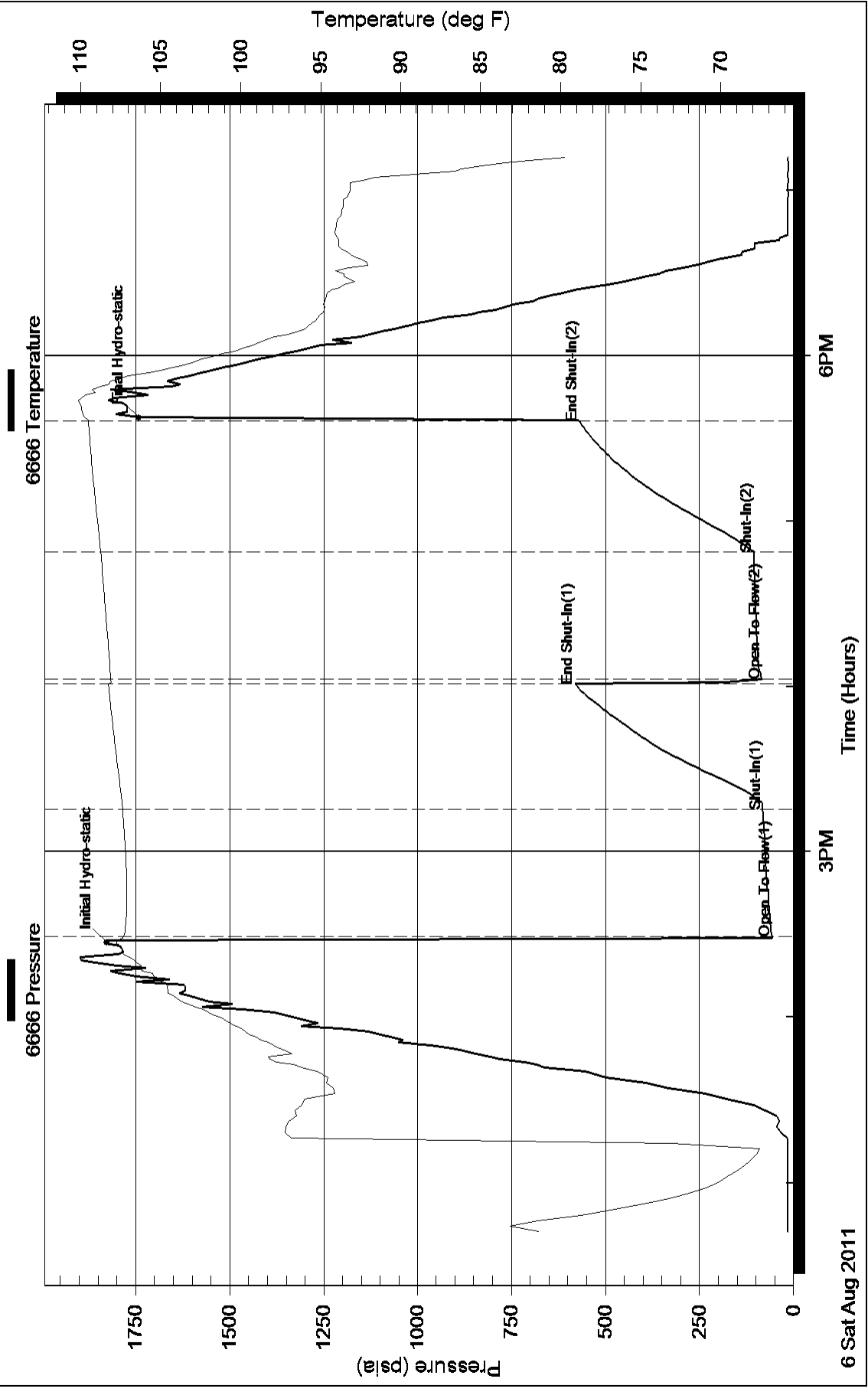
Serial #:

Laboratory Name:

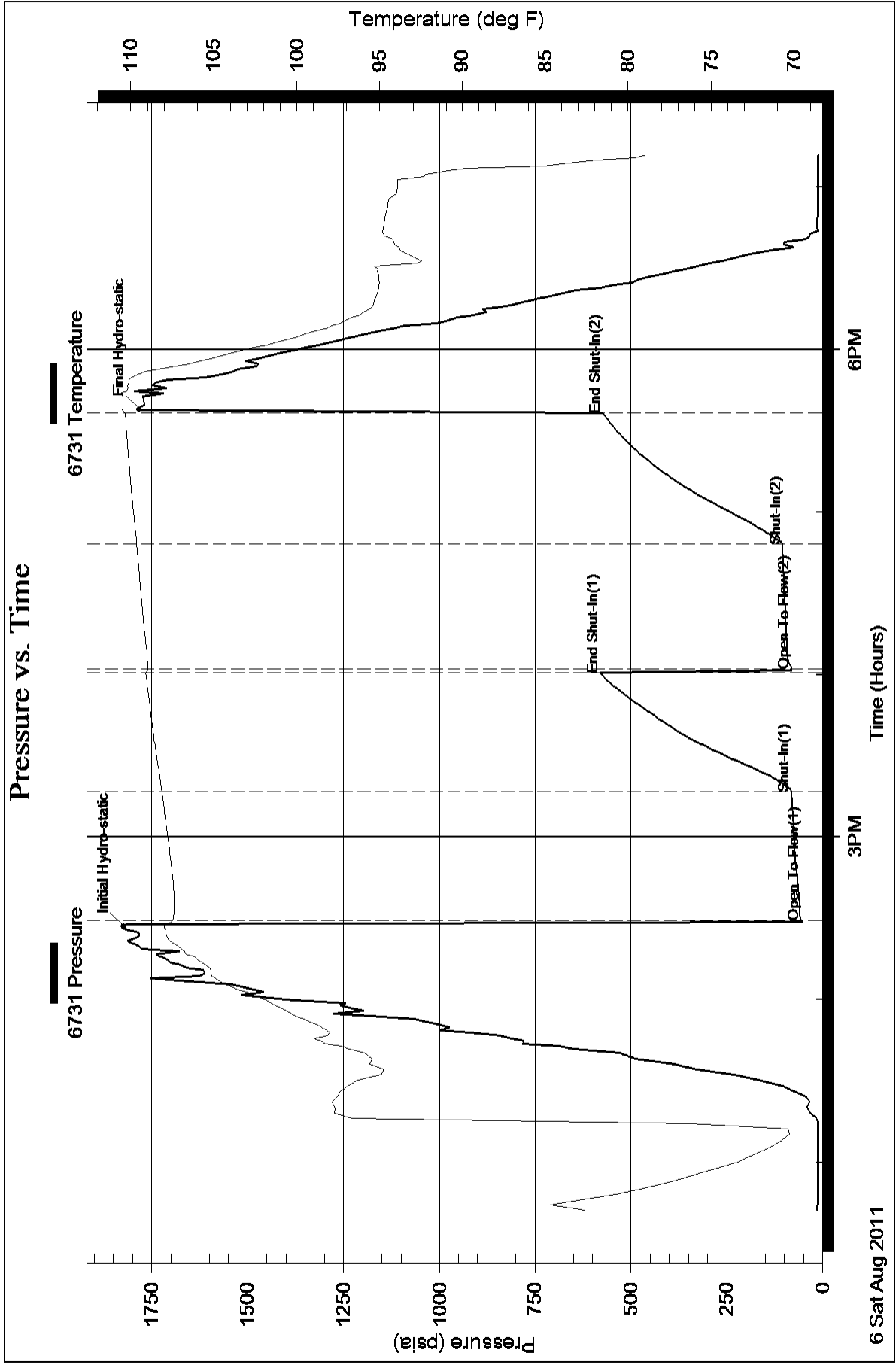
Laboratory Location:

Recovery Comments:

### Pressure vs. Time







Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

September 28, 2011

Robin L. Austin  
Rama Operating Co., Inc.  
101 S MAIN ST  
STAFFORD, KS 67578-1429

Re: ACO1  
API 15-185-23683-00-00  
J. Meyer 2-28  
NE/4 Sec.28-23S-12W  
Stafford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Robin L. Austin

Customer <b>RAMA OPERATING</b>	Lease No.	Date <b>8-18-2011</b>
Lease <b>J. MEYER</b>	Well # <b>2-28</b>	
Field Order # <b>4095</b>	Station <b>PRATT, KS.</b>	Casing <b>3.5</b>
		Depth
Type Job <b>CCSPW - DOC SQUEEZE</b>	Formation	County <b>STAFFORD</b>
		State <b>KS.</b>
		Legal Description <b>28-25-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
3.5	2.875		CMT	-Aoid-	SK Common			
Depth 3843'	Depth 3843'	From	To	Pre Pad	@ 1.5 CUFT <sup>3</sup>	Max		5 Min.
Volume 3.06	Volume 22.2 BB	From	To	Pad		Min		10 Min.
Max Press 500	Max Press 1500	From	To	Frac		Avg		15 Min.
Well Connection S.V.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth 3843	From	To	Flush	22.57 BBL	Gas Volume		Total Load

Customer Representative <b>RANDY</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY / K. GORDLEY</b>				
Service Units	19907	19870	33708	20920	19959	21010
Driver Names	<b>PURDLEY</b>	<b>LESLEY</b>	<b>LAWRENCE -</b>	<b>HUNTER</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:00AM					ON LOCATION - SAFETY MEETING
					HOOK UP TO CSG & TUBING
9:30AM	500				PSI ↑ BACKSIDE
9:35AM		350		1.5	ESTABLISH INJECTION RATE
		350	7	1.5	MIX 25 SK COMMON @ 14.0 PPG
		1000	5	1.5	OIL BEHIND CMT.
		2000	13	1.5	H <sub>2</sub> O DISPLACEMENT 1.5 BBL CMT INTER.
		2500	.	1.5	H <sub>2</sub> O DISPLACEMENT - SQUEEZED
					SHUTDOWN - RELEASE PACKER
					WASH AROUND PACKER
11:44AM					PULL 1 JT. TUBING
11:45PM	400		25	3	REVERSE OUT
12:00PM					PULL 10 JTS. - CLOSE IN
					JOB COMPLETE,
					THANKS -
					KEVIN & KEVIN

RAMA OPERATING		Lease No.	Date	
J. MEYER		Well # 2-28	8-9-2011	
Order #	Station PRATT, KS.	Casing 5 1/2	Depth 3900'	County STAFFORD
Type Job CNW-5 1/2" L.S.	Formation	Legal Description 28-23-12		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size #	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2 x 14 #			CMT-	1255K AA2			5 Min.	
Depth 3880	Depth	From	To	Pre Pad @ 1.36 COFT	Max		10 Min.	
Volume 14.67 BBL	Volume	From	To	Pad	Min		15 Min.	
Max Press 1500	Max Press	From	To	Frac	Avg		Annulus Pressure	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Total Load	
Plug Depth 3867'	Packer Depth	From	To	Flush 94 BBL	Gas Volume			

Customer Representative RANDY	Station Manager D. SCOTT	Treater K. LESLEY
-------------------------------	--------------------------	-------------------

Service Units	37900	19829	19842	19831	19862				
Driver Names	LESLEY	LAWRENCE	HUNTER						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:20 PM					ON LOCATION - SAFETY MEETING
9:30 PM					RUN 92 JTS. 5 1/2" x 14" CSG.
					13' SHOE JOINT
					CENT-9, 1, 3, 5, 8, 10, 12
10:55 PM					CSG. ON BOTTOM
11:00 PM - 11:45 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
11:55 PM	300		12	6	MUD FLUSH
11:57 PM	300		10	6	H <sub>2</sub> O SPACER
12:03 PM	200		30	6	MIX 1255K AA2 @ 15.3 PPG
12:07 PM					WASH PUMP & LINE CLEAN
12:08 PM					DROP TOP RUBBER PLUG
12:10 AM	200		0	7	START DISPLACEMENT
12:15 AM	400		70	6	LIFT PRESSURE
12:17 AM	500		80	5	SLOW RATE
12:20 AM	1200		94	4	PLUG DOWN - HELD
			6, 4		PLUG R.H. & M.H.
					CIRCULATION THRU JOBS
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

# QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

5232

Home Office 190th US 56 HWY, Ellinwood, KS 67526

Todd's Cell 620-388-5422  
Darin's Cell 785-445-2686

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	8-2-11	Sec.	28	Twp.	23	Range	12	County	STAFFORD	State	KS	On Location		Finish	11:00 AM
Lease	J Meyer	Well No.	2-28		Location		23-50 + 6E to 60 <sup>th</sup> AVS								
Contractor	STERLING				Owner		43/4 N W 1/4 info								
Type Job	SFL				To Quality Well Service, Inc.		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.		695		Charge To RAMA OPERATING Co								
Csg.	8 5/8		Depth		set 693.57		Street								
Tbg. Size			Depth		City										
Tool			Depth		State										
Cement Left in Csg.			Shoe Joint		42.31		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		41.6		Cement Amount Ordered 400 lbs Common								
<b>EQUIPMENT</b>												2 GAL 3/4 CC 1/4" CF			
Pumptrk	8 No.		TODD				Common 400								
Bulktrk	5 No.		DEREK				Poz. Mix								
Bulktrk	No.		MICKS				Gel. 3								
Pickup	No.		DARIN				Calcium 14								
<b>JOB SERVICES &amp; REMARKS</b>												Hulls			
Rat Hole												Salt			
Mouse Hole												Flowseal 100'			
Centralizers												Kol-Seal			
Baskets												Mud CLR 48			
D/V or Port Collar												CFL-117 or CD110 CAF 38			
RUN 16 JTS 8 5/8 23'												Sand			
set 693.57												Handling 422			
												Mileage 30			
MIXED Pump 400 lbs Common												<b>FLOAT EQUIPMENT</b>			
2 1/2 GAL 3/4 CC 1/4" CF.												Guide Shoe 8 5/8 - 1			
15" GAL 1.36 113												Centralizer			
												Baskets			
SAF DOWN												AFU Inserts 8 5/8 - 1			
Release Rubber Plug												Float Shoe			
												Latch Down			
ASD 16 Bts fold												8 5/8 Rubber Plug - 1			
Close hole on csg															
Gross CIRC thru 503												Pumptrk Charge 30 Surtax			
Coke out to 215												Mileage 30			
Thanks												Tax			
TODD DARIN MICKS: RICHARD DEREK												Discount			
Signature												Total Charge			

Joshua R. Austin, Petroleum Geologist  
 report for  
 Rama Operating Company Inc.

GEOLOGIST'S REPORT  
 DRILLING TIME AND SAMPLE LOG

OPERATOR Rama Operating Co., Inc.  
 LEASE J. Meyer WELL NO. 2-28  
 FIELD Bedford  
 LOCATION Ne-Sw-Ne-Ne (911' FNL & 934' FEL)  
 SEC. 28 TWP. 23s RGE. 12w  
 COUNTY Stafford STATE Kansas

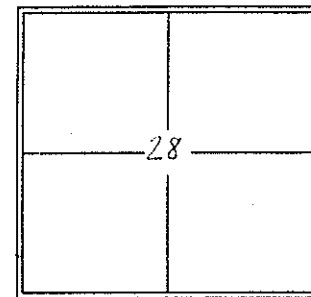
ELEVATION  
 KB 1869  
 DF \_\_\_\_\_  
 GL 1860  
 Measurements Are All  
 From K8

CONTRACTOR Sterling Drilling Co. (Cris #4)  
 COMM. 8-2-2011 COMP. 8-8-2011  
 RTD 3900 LOG TD 3900  
 SAMPLES SAVED FROM 2700 TO 3900  
 DRILLING TIME KEPT FROM 2700 TO 3900  
 SAMPLES EXAMINED FROM 2700 TO 3900  
 GEOLOGICAL SUPERVISION FROM 2800 TO 3900  
 MUD UP 2501 TYPE MUD Chemical displaced

CASING RECORD  
 SURFACE 8 5/8" @ 695  
 PRODUCTION \_\_\_\_\_

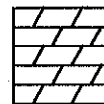
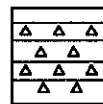
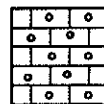
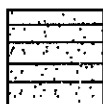
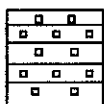
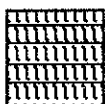
ELECTRICAL SURVEYS  
 By log-Tech  
 CNL/CDL DIL micro

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
anhydrite					
Bern	2735	-866			
Howard	2809	-940			
Severy shale	2862	-993			
Topeka	2906	-1037			
Heebner	3220	-1351			
Toronto	3238	-1369			
Douglas	3254	-1385			
Brotaline	3363	-1494			
Lansing	3388	-1519			
BKC	3638	-1769			
Viola	3703	-1834			
Simpson shale	3755	-1886			
Simpson Dolomite	3783	-1914			
Arbuckle	3819	-1950			



REFERENCE WELL FOR STRUCTURAL COMPARISON Rama Op, Inc J. Meyer 1-28

# LEGEND



Anhydrite

Salt

Sandstone

Shale

Carb sh

Limestone

Ool. Lime

Chert

Dolomite

LITHOLOGY	DEPTH	DRILLING TIME (Logarithmic Scale)										SAMPLE DESCRIPTIONS	REMARKS
		.5	1	2	3	4	5	10	15	20	30		
	2700												
	20												
	40											Ben 2736 (=867)  ls; grey - cream highly ool crthy in part green 1/5  SS	
	60												
	80											* trace sand; grey micr silty ool to gbs  soft grey silty micr shale  SS	
	2800												
	20											* Howard 2810 (=991)  ls cream tan fine ool poorly dev o green in part thin str str spher	
	40											* ls - cream tan grey f. med ool in part green fine v. o. thin str ??? + gas bubbles No ool	
	60											* ls - cream grey fine dense silty	

2900

20

40

60

80

3000

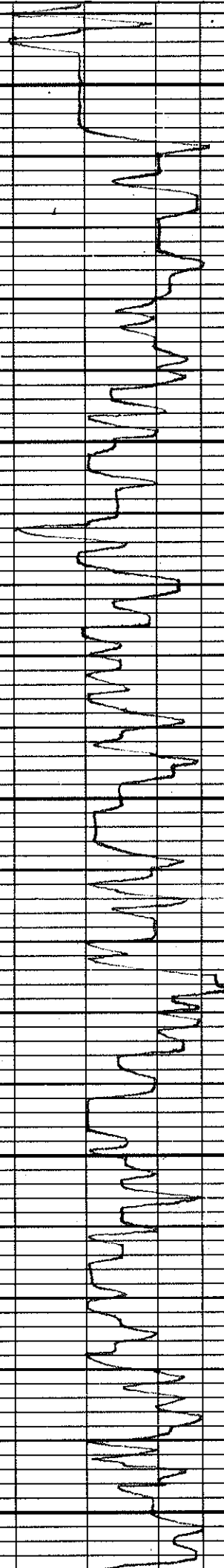
20

40

60

80

3100



Topoka  
2907 (-1038)

Sub rounded, sub angular,  
shaly in part. Fr 1/4" N/S

ls. tan fine foss in part  
chky

ls. grey-tan foss gran chky

ls. cream-grey chky gran foss

ls. aa sectt. N/S  
to grey bony d

ls. grey fine sh. foss dense  
poor vis. dy  
to grey d

ls. cream/tan fossiliferous gran  
to thin sm to grey spotty fo

blk - grey shale

ls. cream-tan fossiliferous  
to fossiliferous tan N/S  
to grey d

ls. aa fine sectt.  
with chky

ls. cream buff fine dense  
chky poor vis.

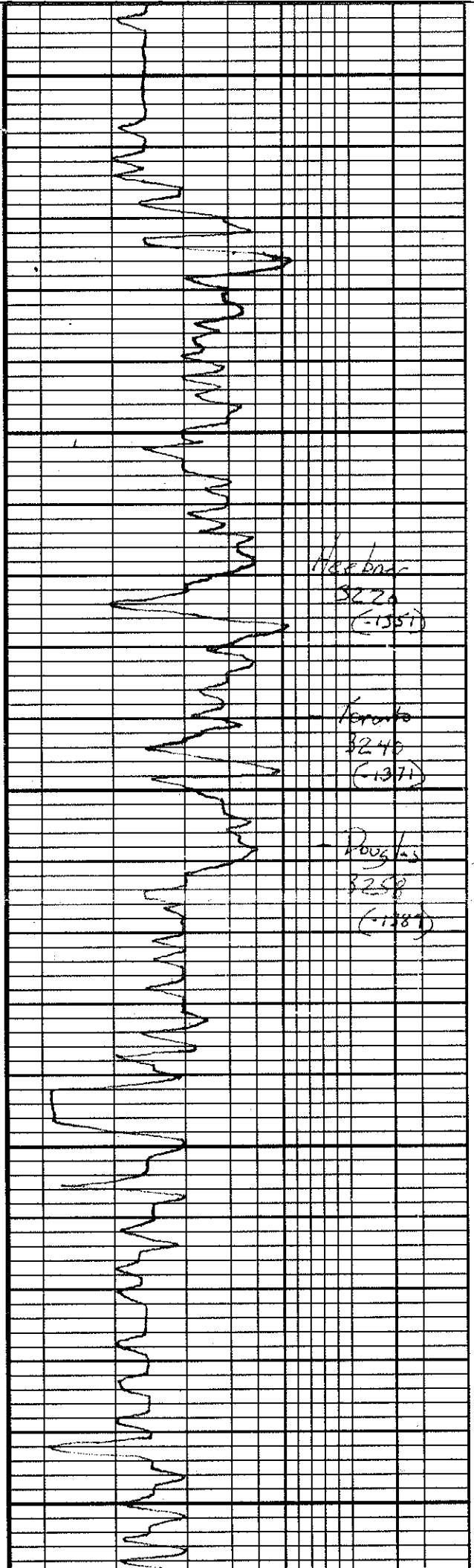
ls. aa gran in part  
to fine N/S  
to grey bony d

blk carb shale





100  
60  
80  
3200  
20  
40  
60  
80  
3300  
200  
40



Harbor  
3220  
(-1351)

Verano  
3240  
(-1371)

Douglas  
3250  
(-1381)

Calamita  
NSEO No. 1011  
65' ss  
+ sub chlk  
blk shale  
60' crm f. matrix green  
to spotty sea str. fossil.  
KB 1869  
45' crm. Hgry fine chky  
dense poor lvs  
blk carb shale  
grey - greyish green shale  
40' Hgry fine chky few pp.  
massy - dense n/s  
grey - greyish green silty shale  
shale: ss  
Sub: grey - greyish green silty  
vf; mica poorly dev. n/s  
Sand: ss fine to lg. n/s  
Sand: shale ss  
grey - dk grey silty mica  
shale

KB 1869

SS

3400

20

40

60

80

3500

20

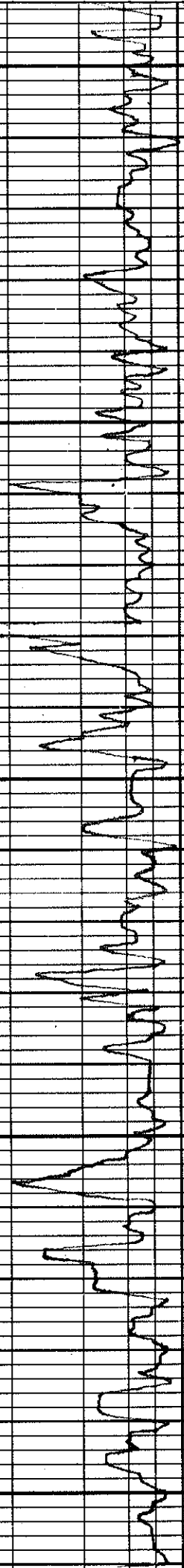
40

60

80

3600

+ casing  
3392  
(152)



LS; cm-gry fxl chky  
slightly foss poor vis. N/S

LS; cm fxl dense sl: chky  
dy in part partly dense taber  
sh alga no alor  
SS

LS; gry-lust f med xl sl: gran  
poor vis. dy few foss/ool pas  
to gry heavy N/S

LS; cm-wh fxl chky  
blk sta sfo funder poor vis.  
to unit gas kick

LS; cm fxl dense dy N/S

LS; Tan ool, chky in part, ool  
froom's brash sfo/sat ftaber  
to unit gas kick

LS; cm fxl chky poor;  
+ wh chky  
to gry A  
SS

LS; cm fxl chky fxl o'  
sl: foss brash to po very sl: alor

LS; cm med sl: ool chky dark brash  
N/S

LS; coarse med fxl dense dy  
to gry - dark gry A

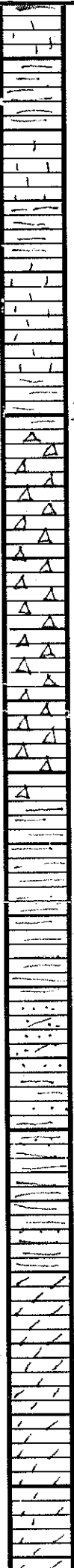
LS; gry. cm foss/ool chky in  
to unit gas kick  
Blow Strong  
Final fair

LS; cm ool dense in part sl: chky  
to unit gas kick  
to unit gas kick  
Blow back  
Recovery 2  
12

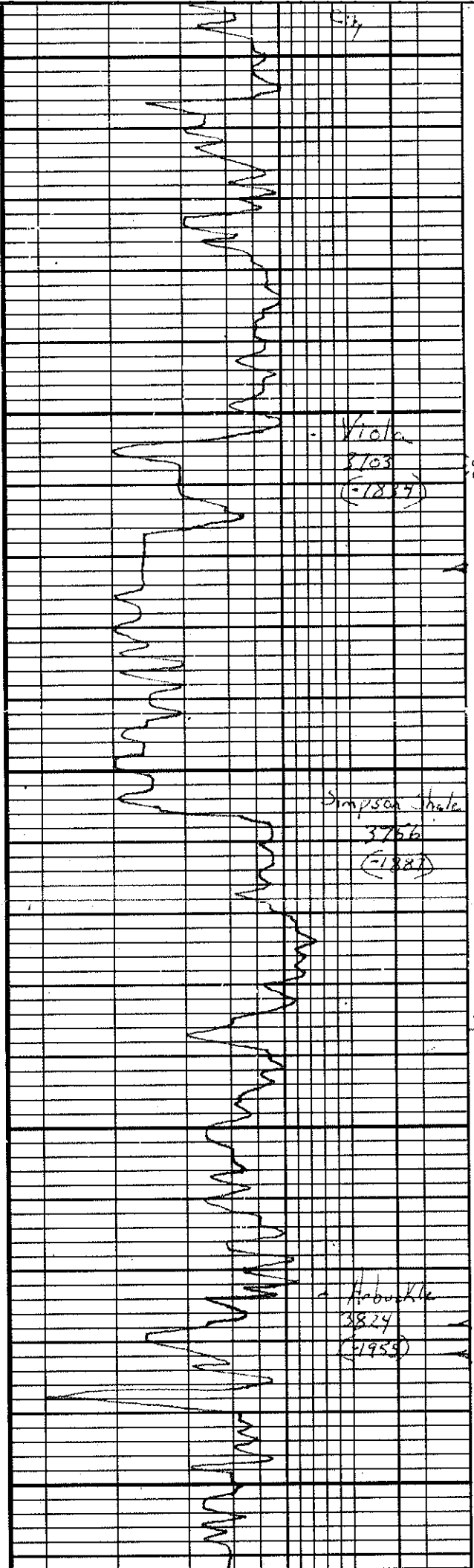
gry. med - blk sh:ls

LS; gry sl: low chky in part dense  
to unit gas kick  
to unit gas kick  
Blow back  
Recovery 2  
12

DST #1  
45-45-4  
Blow Strong  
Final fair  
Blow back  
Recovery 2  
12  
(10% gas 4%)  
Pressure  
12  
15  
15  
15  
15



60  
80  
3700  
20  
40  
60  
80  
3800  
20  
40  
60



Viola  
3703  
(-1887)

Simpson shale  
3766  
(-1887)

Habuckle  
3824  
(-1958)

gry - greyish green silty shale  
to mar. sand  
Shale; gry - greyish green, soft  
shale; gry - mar  
LS. Crm - grey, ash in part, silty green  
few ash clay  
LS. crm. fac. cherty dense  
+ gry. barry d  
Chert; wh - crm - tan to semi tan  
few weathered per blk str SPO  
100 unit gas thick  
Chert; wh - crm - tan - amber  
heavy / fract to semi tan  
blk edge staining grey color  
A ca few vespy type blk -  
brn str silty SPO  
Shale; gry - green - olive green  
Sand; crm - tan v. cherty  
silty dense to brn str spotty SPO  
grey color  
Sandy crm. H. gry fine grained/  
dolomite in part few brn blk brn str  
SPO fractor 60 unit gas thick  
Sand, mar + shale gry - green  
Sand; gry dolomite  
blk - green shale  
dol. tan fac. sea flow lake  
brn str SPO fractor  
Dolomite; f - med to crm - tan  
SPO in part to blk brn str  
spotty SPO fractor  
dol. gry fac. dense silty poor  
to brn - blk str ??? SPO fractor  
Dol. crm - gry f - med to SPO SPO

DST #2  
30-30  
with blow  
Recovery  
Plugged